

WHAT IS CLAIMED IS:

1. A thin film magnetic head comprising:
  - a substrate having a major surface;
  - a first magnetic layer formed on or above the major surface of the substrate and having a pole portion;
  - a second magnetic layer having a pole portion which is opposed to said pole portion of the first magnetic layer via a write gap layer and constitutes an air bearing surface together with said pole portion of the first magnetic layer;
  - a third magnetic layer having one end connected to said second magnetic layer and the other end remote from the air bearing surface magnetically coupled with the first magnetic layer; and

at least one layer of thin film coil having a portion formed between said first and second magnetic layers; wherein

said at least one layer of thin film coil is embedded within an organic insulating layer; and

an inorganic insulating layer is provided on the organic insulating layer such that a surface of the inorganic insulating layer opposite to the organic insulating layer is coplanar with a surface of the second magnetic layer opposite to the write gap layer.
2. The thin film magnetic head according to claim 1, wherein said organic insulating film is made of photo-resist and said inorganic insulating layer is made of alumina.
3. The thin film magnetic head according to claim 1, further comprising a second layer of thin film coil formed on said coplanar surface of the inorganic insulating layer.